

MECHANICAL COVER SHEET MECHANICAL EQUIPMENT SCHEDULES GROUND FLOOR MECHANICAL PLAN FIRST FLOOR MECHANICAL PLAN SECOND FLOOR MECHANICAL PLAN GROUND FLOOR MYDRONIC PLAN FIRST FLOOR HYDRONIC PLAN FIRST FLOOR HYDRONIC PLAN FIRST FLOOR HYDRONIC PLAN MECHANICAL DETAILS MECHANICAL DETAILS MECHANICAL DETAILS HEATING WATER HYDRONIC SCHEMATIC CONTROLS SCHEMATIC CONTROLS SCHEMATIC HEATING WATER SYSTEM CONTROL SCHEMATIC AN

SYMBOLS

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MECHANICAL GENERAL NOTES

- UNLESS OTHERWISE NOTED SUPPLY DUCT UPSTREAM OF VAV BOX IS THE SAME SIZE AS THE DUCTWORK. FOR CLEARLY NOT ALL SIZES HAVE BEEN SHOWN. ROUTE DUCTWORK IN COORDINATION WITH OTHER TRADES. HOLD DUCTWORK AS HIGH AS POSSIBLE AND ROUTE DUCTWORK WITH IN STRUCTURE WHERE POSSIBLE.
- TEMPERATURE SENSORS SHALL BE INSTALLED AT 48" AFF UNLESS NOTED OTHERWISE. COORDINATE JUNCTION BOX INSTALLATION WITH ELECTRICAL CONTRACTOR.

- ONTRACTOR SHALL PROVIDE ALL NECESSARY TRANSITIONS TO AVOID CONFLICT WITH OTHER JCTWORK, PIPING, STRUCTURE, ETC. AS PART OF THIS CONTRACT. WHEREVER AVAILABLE SPACE LOWS, OFFSETS SHALL BE MADE WITH 45 DEGREE ELBOWS WITH TURNING VANES.

PIPING PENETRATIONS NFPA-90A.

THROUGH RATED ASS

EMBLIES SHALL BE FIRESTOPPED IN ACCORDANCE

ICTWORK AND PIPING SHOWN ARE FOR GENERAL ROUTING PURPOSES ONLY. CONTRACTOR ALL CONFIRM EXACT ROUTING WITH OTHER TRADES AND PROVIDE ALL NECESSARY ANSITIONS, HIGH POINT VENTS AND LOW POINT DRAINS AND OFFSETS NECESSARY TO INSTALL COMPLETE AND FUNCTIONING SYSTEM.

E CEILING SPACE FROM THE BOTTOM OF THE CEILING GRID TO A MINIMUM OF 6" ABOVE THE TTOM OF THE CEILING GRID IS RESERVED FOR INSTALLATION OF CEILING MOUNTED ITEMS (I.E. HI FIXTURES, SPEAKERS, DIFFUSERS). NO PIPING, DUCTWORK, CONDUITS, ETC., EXCEPT OPS SERVING THE CEILING MOUNTED ITEMS, IS ALLOWED TO BE INSTALLED IN THIS SPACE, LESS OTHERWISE APPROVED BY THE RESIDENT ENGINEER.

ONTRACTOR IS REQUIRED TO FOLLOW ALL OSHA REGULATIONS CONCERNING CONSTRUCTION.
HE SUPERINTENDENT IS REQUIRED TO HAVE COMPLETED, AS A MINIMUM, OSHA'S 10—HOUR
VAINING AND BE KNOWLEDGEABLE OF GENERAL SAFETY REQUIREMENTS FOR CONFINED SPACES,
LL PROTECTION, PERSONAL PROTECTIVE EQUIPMENT, TRENCHING, SCAFFOLDING, CRANES,
ECTRICAL, ETC. APPLICABLE SUBCONTRACTORS ARE TO HAVE A COMPETENT PERSON ON SITE
HEN REQUIRED BY OSHA.

ACCESSING A CONFINED SPACE, THE CONTRACTOR IS REQUIRED HAVE THEIR OWN CONFINED YACE AIR MONITOR AND TO TEST THE AIR PRIOR TO ENTERING AND CONFINED SPACE AIR INTRACTOR AND TO TEST THE AIR PRIOR TO ENTERING AND CONFINED SPACE. IF THE INTRACTOR MUST ENTER A SANITARY SEWER MANHOLE, IN ADDITION TO A CONFINED SPACE MONITOR, THEY MUST HAVE PROPER OSHA RESCUE EQUIPMENT FOR A PERMIT REQUIRED INFINED SPACE. WHERE IT IS NOT POSSIBLE FOR THE VA TO SHUTDOWN AN ELECTRICAL NEL OR CIRCUIT, THE CONTRACTOR MUST PROVIDE AND USE THE APPROPRIATE SAFETY OTHING AND EQUIPMENT AS REQUIRED BY NFPA 70E. THE VA WILL BE MONITORING THE INTRACTOR'S COMPLIANCE WITH OSHA REGULATIONS. FAILURE TO COMPLY IS GROUNDS FOR OPPING WORK.

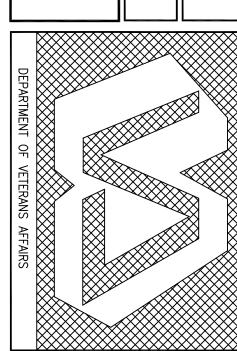
WILL SHUT DOWN EXISTING UTILITY SYSTEM AS NECESSARY FOR CONTRACTOR TO PERFORM JIRED WORK. CONTRACTOR IS RESPONSIBLE FOR DRAINING EXISTING WET SYSTEMS, SUCH WATER, CHILLED WATER, HEATING WATER, ETC. AS REQUIRED TO ACCOMPLISH NEW WORK. TRACTOR IS ALSO RESPONSIBLE FOR RE-FILLING SYSTEMS INCLUDING ADDING CHEMICAL AS JIRED. IT IS ACCEPTABLE TO SALVAGE EXISTING TREATED WATER IN CLEAN STORAGE TAINERS APPROVED BY THE VA, AND RE-INJECT IT INTO THE SYSTEM UPON COMPLETION OF TAINERS APPROVED WATER NOT RE-INJECTED IS TO BE PROPERLY DISPOSED OF.

TRANSITION AS NECESSARY FROM DUCT SIZES INDICATED ON PLAN TO EQUIPMENT DUCT CONNECTION.

WITH 4-WAY THROW PATTERN UNLESS OTHERWISE

- FIRE DAMPERS SHALL BE $1\!-\!1/2$ HOUR RATED UNLESS OTHERWISE NOTED.

- DUCT SIZES INDICATED FOR CONNECTION TO EQUIPMENT MAY DIFFER FROM EXACT UNIT CONNECTION DIMENSIONS. PROVIDE ALL NECESSARY TRANSITIONS FROM DUCT SIZES LISTED TO UNIT CONNECTION.



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